

AMENDMENTS TO THE SPECIFICATION

Please amend the Specification as directed and shown below.

Please delete the present Title and replace same with the following:
PACKAGING SYSTEM AND METHOD THEREFOR

Please amend the following paragraphs of the Specification as shown.

[0010] Preferably, the characterisation characterization is either learnt by the system or extracted from a database containing rules.

[0011] Preferably, when characterisation characterization is based upon rules, fuzzy logic is used to quantify the abnormal operation of the mechanical element.

[0013] According to a second aspect of the present invention, there is provided a diagnostic apparatus for identifying abnormal operation of a packaging machine, the apparatus comprising: a processing unit arranged to receive a sampled signal issued, when in use, to a servo-motor, the signal corresponding to torque values of the servo-motor; wherein the processing unit is coupled to a storage device for storing a characterisation characterization of a mechanical element coupled to the servo-motor, the characterisation characterization comprising at least one predetermined value corresponding to a plurality of the torque values of the servo-motor in a condition of normal operation; and the processing unit is arranged to determine, when in use, abnormal operation of the mechanical element using the sampled signal and the characterisation characterization of the mechanical element.

[0074] Alternatively, instead of applying fuzzy logic, the amplitudes for each frequency stored in the second database 516 can be compared with empirically derived characterisations characterizations of the parameters being monitored, the empirically derived characteristics characterizations being stored in the third database 518. The empirically derived characterisations characterizations can be stored as ranges of acceptable values. As a further alternative, the characterisations characterizations can be learnt.